



05-13-04

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PTO/SB/21 (02-04)

Approved for use through 07/31/2006. OMB 0691-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/034,438	
	Filing Date	December 27, 2001	
	First Named Inventor	John D. Maxfield	
	Art Unit	2177	
	Examiner Name	Linh Black	
Total Number of Pages in This Submission	25	Attorney Docket Number	149-0055US

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input checked="" type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Return Postcard
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

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MAY 18 2004

Technology Center 2100

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Coe F. Miles (Reg. No. 38,559)
Signature	
Date	May 12, 2004

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I hereby certify that this correspondence is being deposited with the US Postal Service as Express Mail in an envelope addressed to the Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, Express mail label number EV195559696US on the date shown below.	
Typed or printed name	Melissa K. Mosby
Signature	
Date	May 12, 2004

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OIP E JC125  
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PTO/SB/17 (10-03)

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$ 72.00

## Complete if Known

Application Number 10/034,438

Filing Date December 27, 2001

First Named Inventor John D. Maxfield

Examiner Name Linh Black

Art Unit 2177

Attorney Docket No. 149-0055US

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## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit  
Account  
Number  
Deposit  
Account  
Name

501922 (149-0055US)

Wong, Cabello, Lutsch, Rutherford & Brucculeri, L.L.P.

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$ 0.00

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
24	-20** = 4	18	72
Independent Claims	3	-3** = 0	0
Multiple Dependent			

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 72.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION

### 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for <i>ex parte</i> reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0.00

## SUBMITTED BY

(Complete if applicable)

Name (Print/Type)

Coe F. Miles

Registration No.  
(Attorney/Agent)

38,559

Telephone 832-446-2418

Signature

Date May 12, 2004

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Title : SYSTEM AND METHOD FOR CONTROLLING FREE SPACE  
DISTRIBUTION BY KEY RANGE WITHIN A DATABASE  
Inventors : John D. Maxfield  
Serial No : 10/034,438 § Examiner : Linh Black  
Filed : 27 Dec 2001 § Phone : 703-305-0317  
Docket : 149-0055US § Art Unit : 2177  
Customer : 29855



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P.O. Box 1450  
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING (37 C.F.R. 1.10)

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*Melissa K. Mosby*  
Melissa K. Mosby

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MAY 18 2004

REPLY TO OFFICE ACTION DATED 22 APRIL 2004 Technology Center 2100

Sir:

In response to the Office Action dated 22 April 2004, please amend the above-identified application as follows:

**Amendments to the Specification** begin on page 2 of this Reply.

**Amendments to the Claims** begin on page 3 of this Reply.

**Amendments to the Drawings** are discussed at page 8 of this Reply.

**Remarks and Arguments** begin on page 8 of this Reply.

An **Appendix** including a clean copy of the proposed amendments to the specification and claims as well as replacement and annotated sheets for each amended drawing sheet is attached following page 12 of this Reply.

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01 FC:1202 72.00 DA